

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Northrup, King and Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS PERMITTED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'S 1346'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 29th day of September in the year of our Lord one thousand nine hundred and seventy-six

Attest:

J. G. Rollin

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L. Buttz

Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION S 1346	2. KIND NAME Soybeans	FOR OFFICIAL USE ONLY PV NUMBER 7500085	
3. GENUS AND SPECIES NAME <u>Glycine max</u> (L.) Merr.	4. FAMILY NAME (Botanical) Leguminosae	FILING DATE 5.8.75	TIME 2:30 P.M.
	5. DATE OF DETERMINATION October 1970	FEE RECEIVED \$ 250	BALANCE DUE \$ —
		\$ 250	\$ —
6. NAME OF APPLICANT(S) Northrup, King & Co.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 959 Minneapolis, Minnesota 55440		8. TELEPHONE AREA CODE AND NUMBER 612-781-8011
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. STATE OF INCORPORATION Minnesota	11. DATE OF INCORPORATION 1896

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

**Allenby L. White
Northrup, King & Co.
P. O. Box 959
Minneapolis, Minnesota 55440**

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Botanical Description of the Variety
- ☒ 13C. Exhibit C, Objective Description of the Variety
- ☒ 13D. Exhibit D, Data Indicative of Novelty
- ☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☒ YES ☐ NO14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☒ YES ☐ NO14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

May 6, 1975
(DATE)

Allenby L. White
(SIGNATURE OF APPLICANT)

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(DATE)

(SIGNATURE OF APPLICANT)



7500085

EXHIBIT A
ORIGIN AND BREEDING HISTORY OF S 1346 SOYBEANS

- 1969 60 plants were selected from an F₇ bulk population from the cross 'A5-5629-4' x 'PI257435'. A5-5629-4 is a selection from the cross 'Roanoke' x 'Hawkeye'. The population had been advanced to the F₇ generation by harvesting 2 pods from approximately 400 plants in each generation.
- 1970 Seeds from each selected plant were grown in a progeny row. One of these, designated 846, was selected on the basis of maturity, uniformity, and appearance for further testing and was bulk-harvested.
- 1971 846 was yield tested at Hudson and Washington, Iowa. On the basis of its maturity, uniformity, high yield, and excellent standability, 846 was chosen as an experimental variety worthy of further testing.
- 1972 846 was yield tested at Stanton, Minnesota; Delavan, Wisconsin; and Dixon, Illinois.
- 1973 846 was yield tested at Stanton and Minnesota Lake, Minnesota; and Hudson, Dayton, and Washington, Iowa. A small increase block planted from hand-rogued seed was planted at Washington, Iowa. This block was carefully rogued for off-type plants and harvested to produce breeder seed.
- 1973-74 One hundred representative plants of 846 were harvested individually to be grown as progeny rows in 1974.
- 1974 846 was yield tested at all the locations listed for 1973 plus Darien, Wisconsin, and Van Wert, Ohio. It was tested in University trials in Iowa and Wisconsin. A further increase was made from the breeder seed produced in 1973. In addition, one hundred progeny rows were grown and any rows containing off-type plants were discarded. The rest were bulk harvested to produce pedigree seed of the variety. The pedigree method of maintaining varietal purity will continue as long as the variety is produced.
- 1975 846 was named S 1346 and released to foundation seed producers.
- S 1346 is stable and uniform for all normal descriptive characteristics. A very low frequency of variants would be expected through mutation, outcrossing, or mechanical mixture. These will be prevented from becoming a significant constituent of the variety through application of the time-proven pedigree method referred to above.

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EXHIBIT B
BOTANICAL DESCRIPTION OF S 1346 SOYBEANS

I. Seed and seedling.

Cotyledons of S 1346 are yellow. Seeds have dull yellow seed coats and yellow hyla. Seeds are large (17.4 grams per 100 vs. 16.4 for Steele, 16.0 for Hark, and 14.4 for Corsoy averaged over 4 tests). Seed shape is spherical, or similar to most common varieties. Hypocotyl color of the seedling is purple. Seedlings have good field emergence.

II. Flowering.

When planted about May 15, S 1346 will begin flowering in about 43 days at Washington, Iowa; about the same as for Hark. Duration of flowering is similar to Hark, and flowering pattern is similar to other indeterminate, Maturity Group I varieties.

III. Fruiting.

Flowering and beginning pod set overlap, as is true of other indeterminate varieties. At full vegetative growth, S 1346 has medium-small, ovate leaflets which are a medium to light green color. Canopy type is rather slender and open.

IV. Disease Reaction.

S 1346 is similar to most northern soybean varieties in its susceptibility to common foliar diseases. It has field tolerance, but not immunity, to Phytophthora root rot.

V. Mature plant.

S 1346 has grey pubescence and tan pods. It is considerably shorter than Chippewa 64, Steele, or Hark, and has excellent lodging resistance. Most pods are 2 or 3 seeded and there are normally several pods per node, depending upon yield level. In NK trials, average yield of S 1346 is very similar to that of Hark. It is intermediate between Chippewa 64 and Hark in maturity.

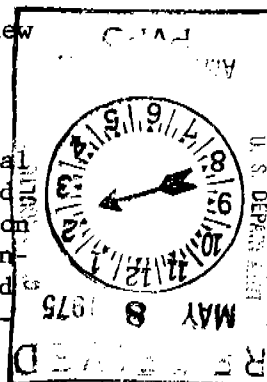
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INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.



OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) Northrup, King & Co.	FOR OFFICIAL USE ONLY
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) P. O. Box 959 Minneapolis, Minnesota 55440	PVPO NUMBER 7500085
	VARIETY NAME OR TEMPORARY DESIGNATION S 1346

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. SEED SHAPE:

1	1 = SPHERICAL	2 = SPHERICAL FLATTENED	3 = ELONGATE	4 = OTHER (Specify)
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2. SEED COAT COLOR:

1	1 = YELLOW	2 = GREEN	3 = BROWN	4 = BLACK	5 = OTHER (Specify)
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SHADE:

2	1 = LIGHT	2 = MEDIUM	3 = DARK
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3. SEED COAT LUSTER:

1	1 = DULL	2 = SHINY
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4. SEED SIZE

1	7	GRAMS PER 100 SEEDS
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5. HILUM COLOR:

2	1 = BUFF	2 = YELLOW	3 = BROWN	4 = GRAY	5 = IMPERFECT BLACK	6 = BLACK	7 = OTHER (Specify)
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SHADE:

2	1 = LIGHT	2 = MEDIUM	3 = DARK
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6. COTYLEDON COLOR:

1	1 = YELLOW	2 = GREEN
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7. LEAFLET SIZE (See Reverse):

1	1 = SMALL	2 = MEDIUM	3 = LARGE
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8. LEAFLET SHAPE:

1	1 = OVATE	2 = OBLONG	3 = LANCEOLATE	4 = ELLIPTICAL	5 = OTHER (Specify)
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9. LEAF COLOR (See reverse):

1	1 = LIGHT GREEN	2 = MEDIUM GREEN	3 = DARK GREEN
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10. FLOWER COLOR:

2	1 = WHITE	2 = PURPLE	3 = OTHER (Specify)
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11. POD COLOR:

1	1 = TAN	2 = BROWN	3 = BLACK
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12. POD SET:

2	1 = SCATTERED	2 = CONCENTRATED
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13. PLANT PUBESCENCE COLOR:

1	1 = GRAY	2 = BROWN	3 = OTHER (Specify)
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SHADE:

2	1 = LIGHT	2 = MEDIUM	3 = DARK
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14. PLANT TYPES (See Reverse):

1	1 = SLENDER	2 = BUSHY	3 = INTERMEDIATE
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15. PLANT HABIT:

2	1 = DETERMINATE	2 = INDETERMINATE	3 = OTHER (Specify)
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16. HYPOCOTYL COLOR:

2	1 = GREEN	2 = PURPLE
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17. SEED PROTEIN:

1	1 = A	2 = B
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18. NUMBER OF DAYS TO FLOWERING

(Place a zero in first box (e.g. **0 9**) when days are 9 or less.)

4	3
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19. MATURITY GROUP:

3	1 = 00	2 = 0	3 = I	4 = II	5 = III
	6 = IV	7 = V	8 = VI	9 = VII	10 = VIII

20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. **0 2**) when size is 9 mm. or less.)

0	0	MM. LENGTH OF SEEDLING	0	0	MM. LENGTH OF COTYLEDON	0	0	MM. WIDTH OF COTYLEDON
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21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

1 BACTERIAL PUSTULE	0 SOYBEAN CYST	0 DOWNY MILDEW	1 PURPLE STAIN	1 POD AND STEM BLIGHT	0 ROOT KNOT
0 FROGEYE	1 STEM CANKER	1 PHYTO-PHTHORA	1 BROWN STEM ROT	0 TARGET SPOT	1 BROWN SPOT
0 BUD BLIGHT	0 WILDFIRE	1 RHIZOCTONIA ROT	0 OTHER (Specify)		

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EXHIBIT D

DATA INDICATIVE OF NOVELTY FOR S 1346 SOYBEANS

S 1346 is most similar to Hark in maturity, leaf size and shape, plant habit, and appearance. Like Hark, S 1346 has grey pubescence in contrast to brown pubescence for Chippewa, Chippewa 64, Wirth, Osage, Rampage, Anoka, and Dunn. S 1346 has yellow hilum color differentiating it from other grey pubescent maturity Group I varieties Steele (buff), Hodgson (buff), Peterson 85 (buff), A 100 (buff), and Blackhawk (imperfect black). S 1346 can be differentiated from SRF 150 as the latter carries the na gene conditioning very narrow leaflets. S 1346 yields similarly to Hark, but is earlier and shorter, and has significantly larger seed.

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EXHIBIT D
DATA INDICATIVE OF NOVELTY S 1346 SOYBEANS

I. Seed.

A. Seed Description.

Seed of S 1346 have dull yellow seed coats, yellow cotyledons, and yellow hyla; and are spherical in shape.

B. Seed Size and Chemical Composition of Seed.

<u>Variety</u>	<u>Wt. in g</u> <u>per 100 seeds*</u>	<u>Protein</u> <u>%</u>	<u>Oil</u> <u>%</u>
S 1346	17.4	37.8	20.6
Chippewa 64	14.5	38.6	20.1
Steele	16.4	-	-
Hark	16.0	40.0	20.0
Corsoy	14.4	37.6	20.8

* Average of 4 trials.

II. Leaf and Canopy Characteristics.

S 1346 has medium-small, ovate leaflets which are a medium to light green color. Canopy type is rather slender and open, somewhat like Hark.

III. Flower Color is Purple.

IV. Mature Plant.

A. Description. S 1346 has grey pubescence and tan pods.

B. Agronomic Data.

<u>Variety</u>	<u>Yield (K/ha)</u> <u>(\bar{X}_{12} 1973-74)</u>	<u>Maturity</u> <u>(\bar{X}_3 1973-74)</u>	<u>Lodging</u> <u>(\bar{X}_{11} 1973-74)</u>	<u>Height (cm)</u> <u>(\bar{X}_2 1973-74)</u>
S 1346	2800	9-19	1.0	66
Chippewa 64	2481	9-12	1.6	78
Steele	2658	9-15	1.9	76
Anoka	2414	9-13	2.0	66
Hark	2800	9-21	1.8	83

V. Disease Reaction.

S 1346 is similar to most northern soybean varieties in its susceptibility to common foliar diseases. It has field tolerance, but not immunity, to Phytophthora root rot.

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Supplement to Exhibit D, Data Indicative of Novelty for S1346 Soybeans. Application 7500085. Data taken from official Wisconsin variety trials conducted by E. S. Oplinger and E. T. Gritton, Department of Agronomy, University of Wisconsin, Madison, Wisconsin.

Maturity

<u>Location</u>	<u>Mean Date</u>		<u>Mean Difference</u>	<u>LSD*</u>
	<u>S1346</u>	<u>Hark</u>		
Arlington, Wis. 1975	9-15	9-19	4	3.7
Galesville, Wis. 1975	9-30	10-5	5	4.3
Durand, Wis. 1975	10-3	10-5	2	1.3

*Least Significant difference at 5% probability level. Based on 4 replications per variety.

Plant Height

<u>Location</u>	<u>Mean Ht. (cm)</u>		<u>Mean Difference</u>	<u>LSD*</u>
	<u>S1346</u>	<u>Hark</u>		
Arlington, Wis. 1974-75	74	86	12	5.6
Durand, Wis. 1974-75	86	95	9	6.8

*Least significant difference at 5% probability level. Based on 4 replications per variety per year.

Seed Size

<u>Location</u>	<u>Mean seed wt. (g/100 seeds)</u>		<u>Mean Dif.</u>	<u>LSD*</u>
	<u>S1346</u>	<u>Hark</u>		
Arlington, Wis. 1974-75	18.5	16.5	2.0	1.0
Durand, Wis. 1974-75	15.6	13.1	2.5	1.0

*Least significant difference at 5% probability level. Based on 4 replications per variety per year.

EXHIBIT D

Data Contrasting S 1346 from other maturity Group I varieties.

	<u>Pubescence</u>	<u>Color of:</u> <u>Flower</u>	<u>Hilum</u>	<u>Phytophthora</u>
S 1346	G	P	Y	S
Chippewa	B	P	B1	S
Chippewa 64	B	P	B1	R
Hark	G	P	Y	S
Steele	G	P	BF	R
Hodgson	G	P	BF	S
Wirth	B	P	B1	S
Osage	B	P	Y	S
Rampage	B	P	B1	S
Anoka	B	P	B1	S
Dunn	LB	P	B1	S
Peterson 85	G	P	BF	S
Blackhawk	G	W	IB	R
A 100	G	W	BF	S
SRF 150	G	P	Y	S

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NORTH-UP, KING & CO.
P.O. BOX 49, WASHINGTON, IOWA 52353

7500085

EXHIBIT E
STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

The soybean variety, S 1346, was developed by Northrup, King & Co.'s breeding staff at its Washington, Iowa research farm from germ plasm sources cited in Exhibit A of this application. Northrup, King & Co. believes that the variety it has created is novel as defined in the Plant Variety Protection Act and, therefore, that Northrup, King & Co. is the sole owner of the variety.

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22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Hark	Petiole angle	Hark
Leaf shape	Hark	Seed size	Steele
Leaf color	Hark	Seed shape	Steele
Leaf surface	Hark	Seedling pigmentation	Hark

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	127	1.0	66 cm	47 mm	94 mm	37.8	20.6 %	18 @ 350000plts/ha	
Name of similar variety Hark	129	1.8	83 cm	44 mm	94 mm	40.0	20.0	20 @ 350000plts/ha	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Fertilizer Quarterly
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition Management
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

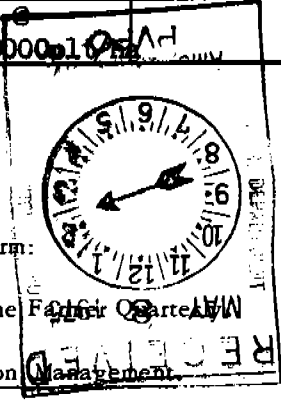
COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"



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APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

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May 6, 1975
(DATE)

Allenby L. White
(SIGNATURE OF APPLICANT)
00001
(SIGNATURE OF APPLICANT)

(DATE)